EFFICIENT REPRESENTATION OF SYSTEM NETWORK MANAGEMENT OBJECT IDENTIFIERS

ABSTRACT OF THE DISCLOSURE

Systems and methods for efficient storage of network management object identifiers are provided. Object identifiers such as SNMP MIB object identifiers are stored in a compressed form. In one embodiment, a single integer represents multiple elements of an object identifier where these elements are common to many identifiers. The redundancy inherent in a standard object identifier format is thereby greatly reduced. Large memory savings are provided in network management systems that employ many network management objects.